Marine Aircraft Group – Tactically Aligned Tactical Data Network

MARCORSYSCOM

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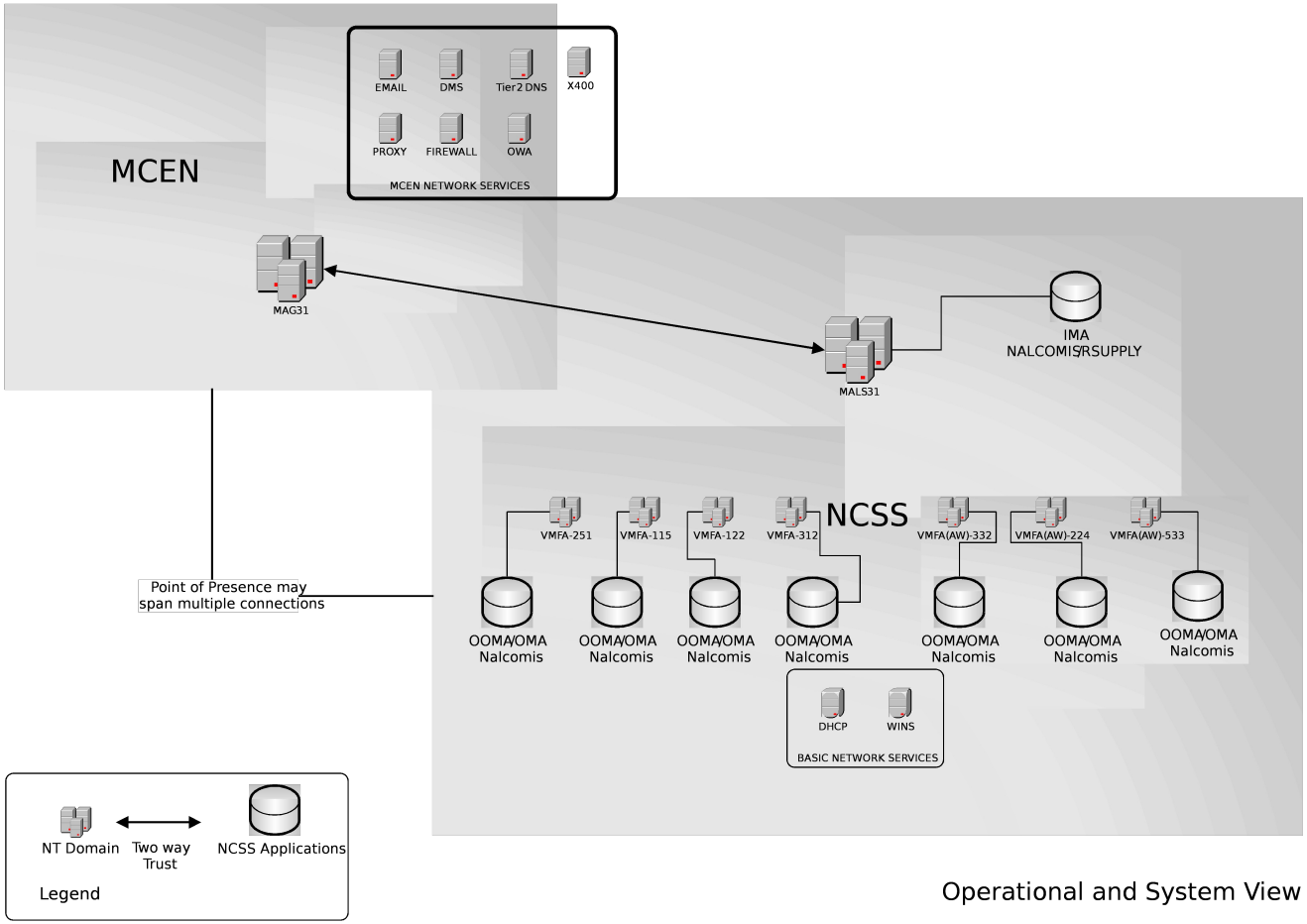
Prepared by Aviation Logistics Support

NCSS Legacy Configuration

- NCSS networks currently provide basic network services for MAG supported squadrons (DHCP, WINS, DNS).
- MALS AISD Marines maintain and repair IMA/OMA network hardware, servers and client systems.
- Each MAG squadron has it’s own NT Domain and Unix servers.
- MCEN provides Enterprise level network services (Firewall, Proxy, Exchange, DMS, Tier 2 DNS).
- Domain Trusts currently exists between MALS and MAG/MCEN to provide single point authentication.

NCSS Legacy Configuration

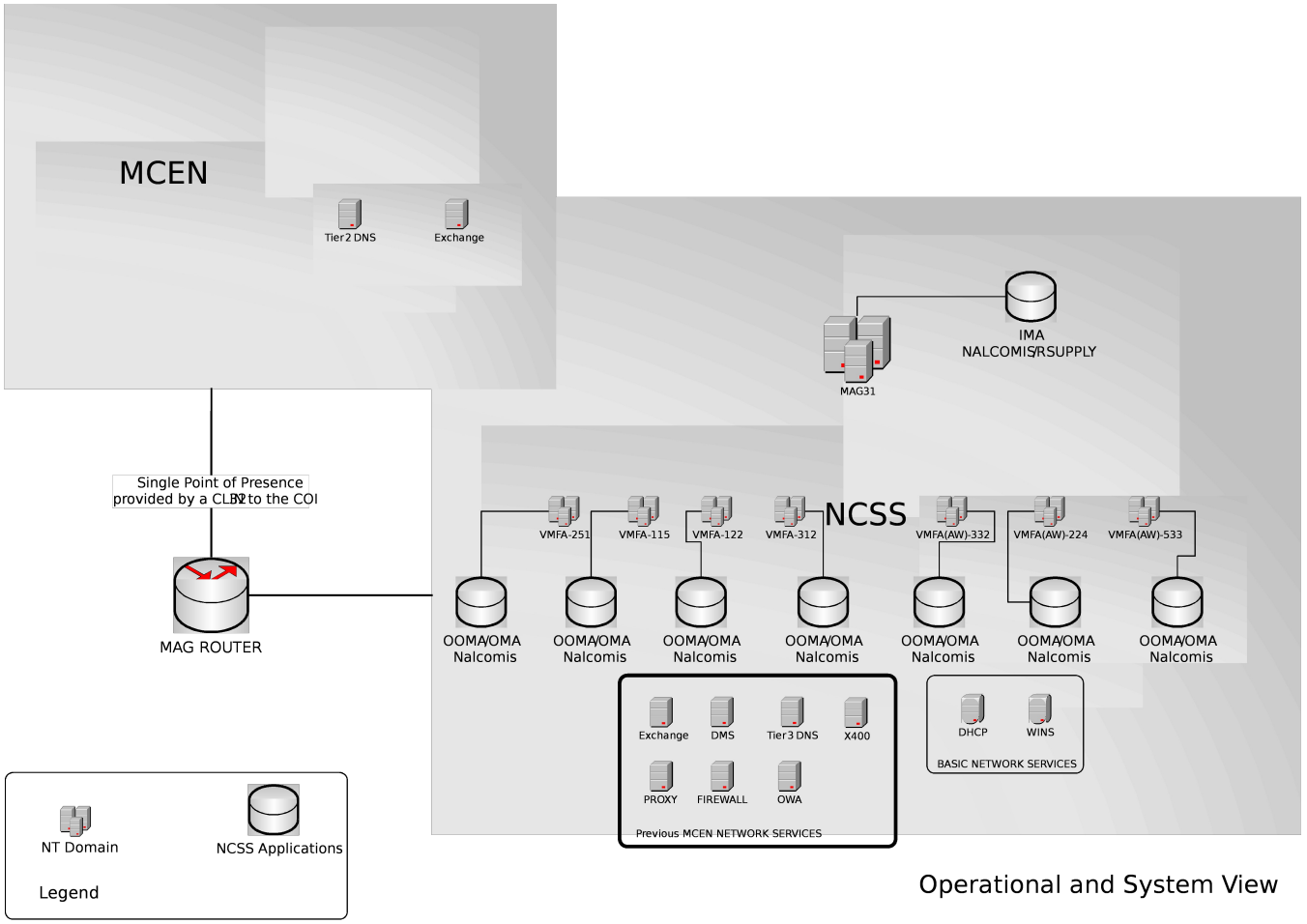


Operational and System View

NCSS MAG-TA Configuration

- Minor changes to current support and operations.
- MAG-TA networks will provide additional network services for MAG supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will continue to maintain and repair IMA/OMA network hardware, servers and client systems.
- Each squadron will continue to operate it’s own NCSS Domain and Unix servers.
- Single point of entry to MCEN COI.
- MAG-TA will be a trusted legacy network.

MAG-TA Configuration

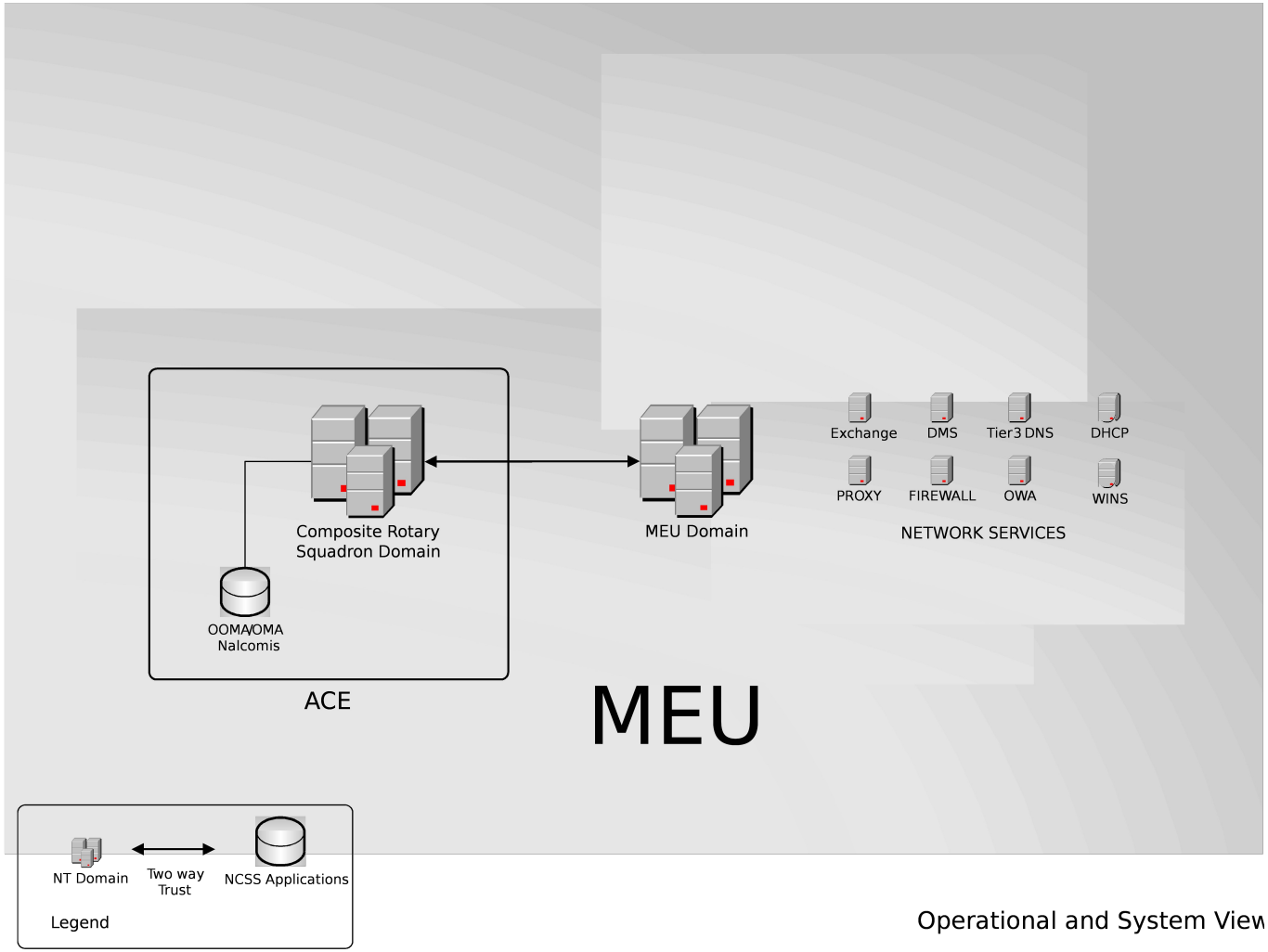


Operational and System View

MAG-TA MEU Deployed

- ACE IT integration procedures will be mostly unchanged.
- MEU will provide required network services for the composite squadron (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will provide support for squadron unit data/email migration.
- Composite squadron will operate it’s own NCSS Domain while deployed.

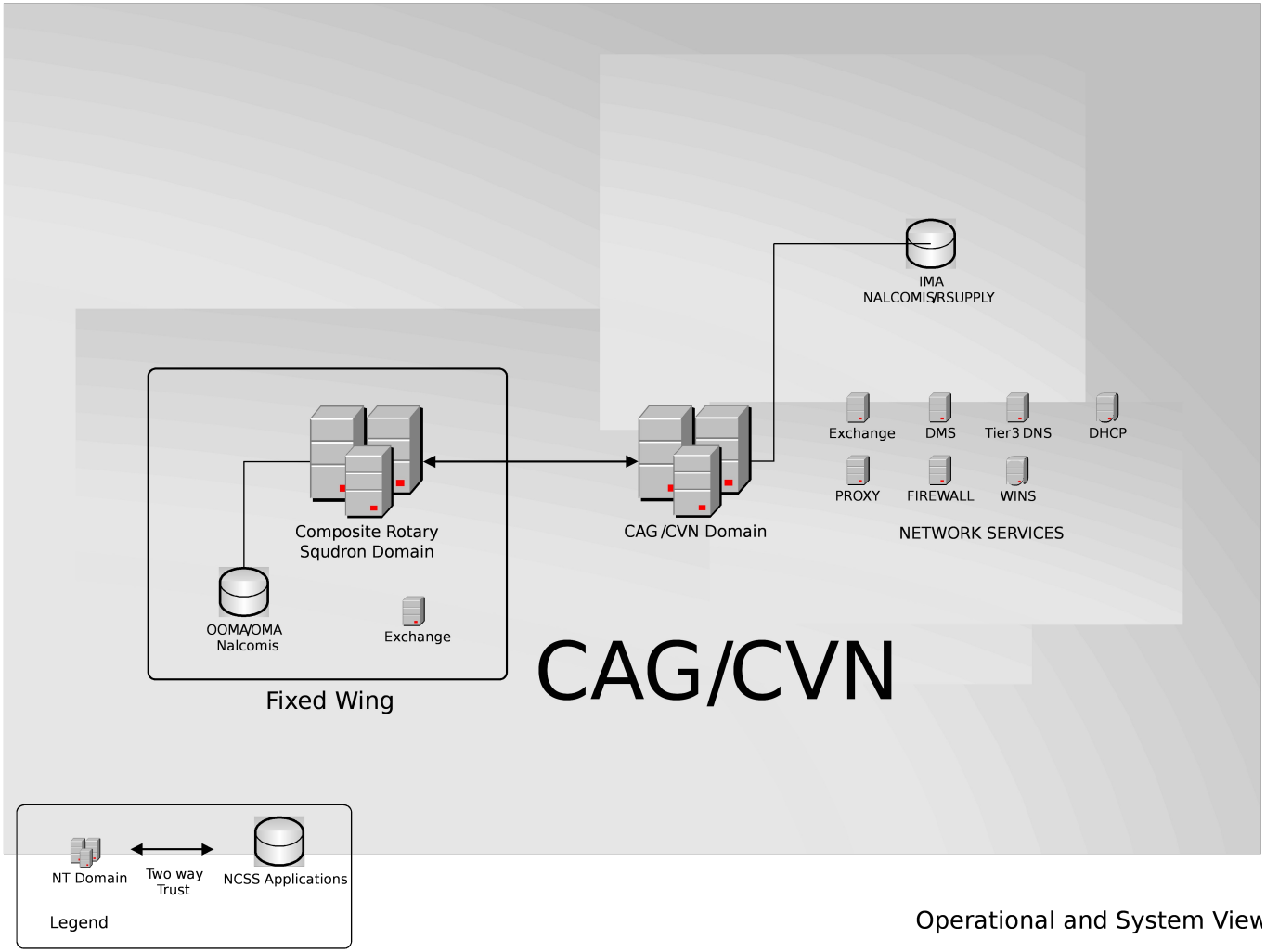
MAG-TA MEU Deployed



MAG-TA Fixed Wing CAG/CVN Deployed

- Fixed Wing squadron integration into ISNS will remain mostly unchanged.
- CAG/CVN will provide required network services for the squadron (Proxy, Firewall, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will assist in the establishment of the squadron email domain and provide support for migration of unit data.
- Squadron will operate it’s own NCSS Domain while deployed.

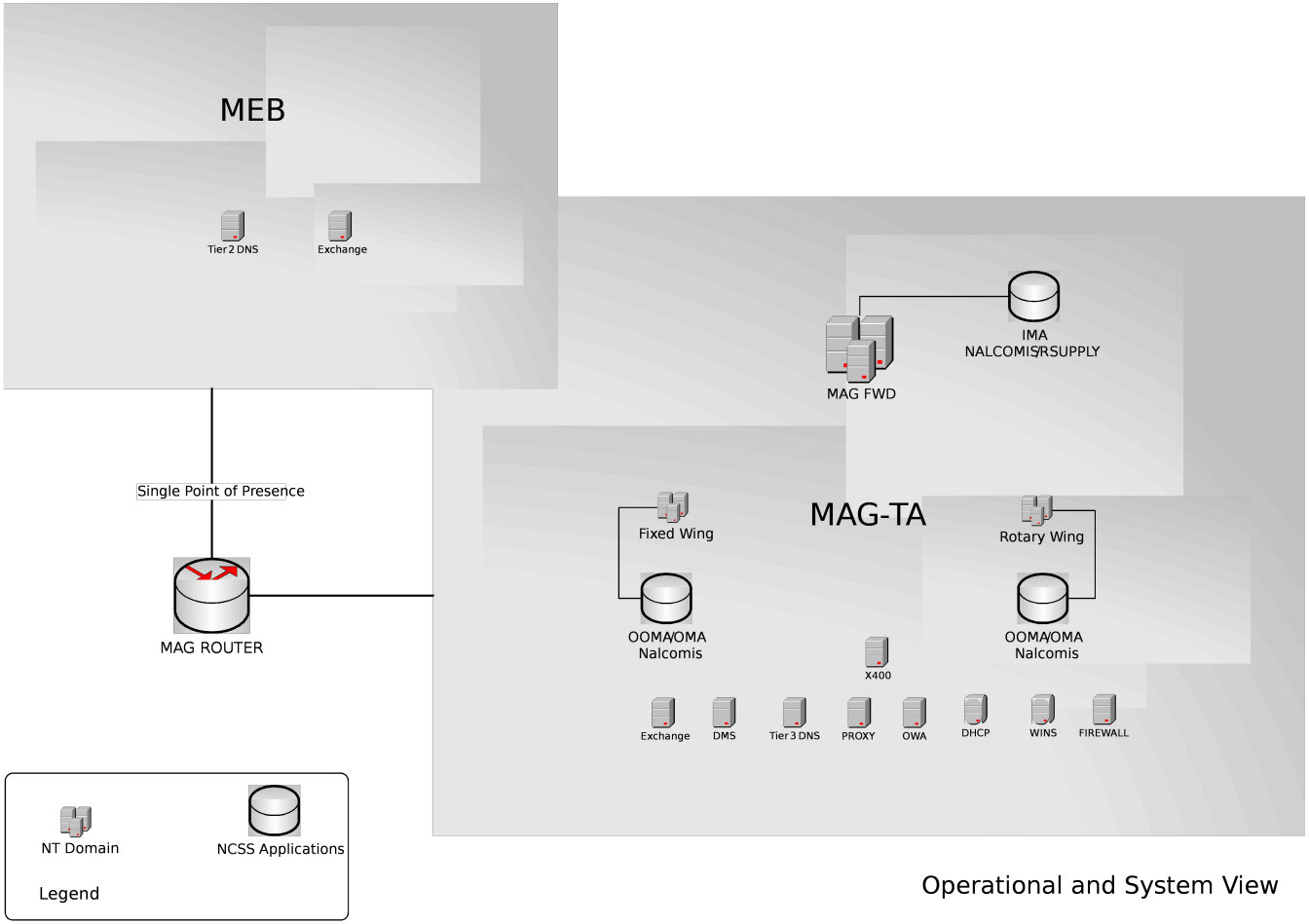
CAG/CVN Deployed



MAG-TA MEB Deployed

- Deployed LAN Kit (DLK) will comprise network infrastructure for deploying ACE.
- MAG FWD will provide required network services for the supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will migrate and maintain MAG FWD and squadron unit data and email.
- MEB G-6 will provide data connectivity back to MCEN COI.

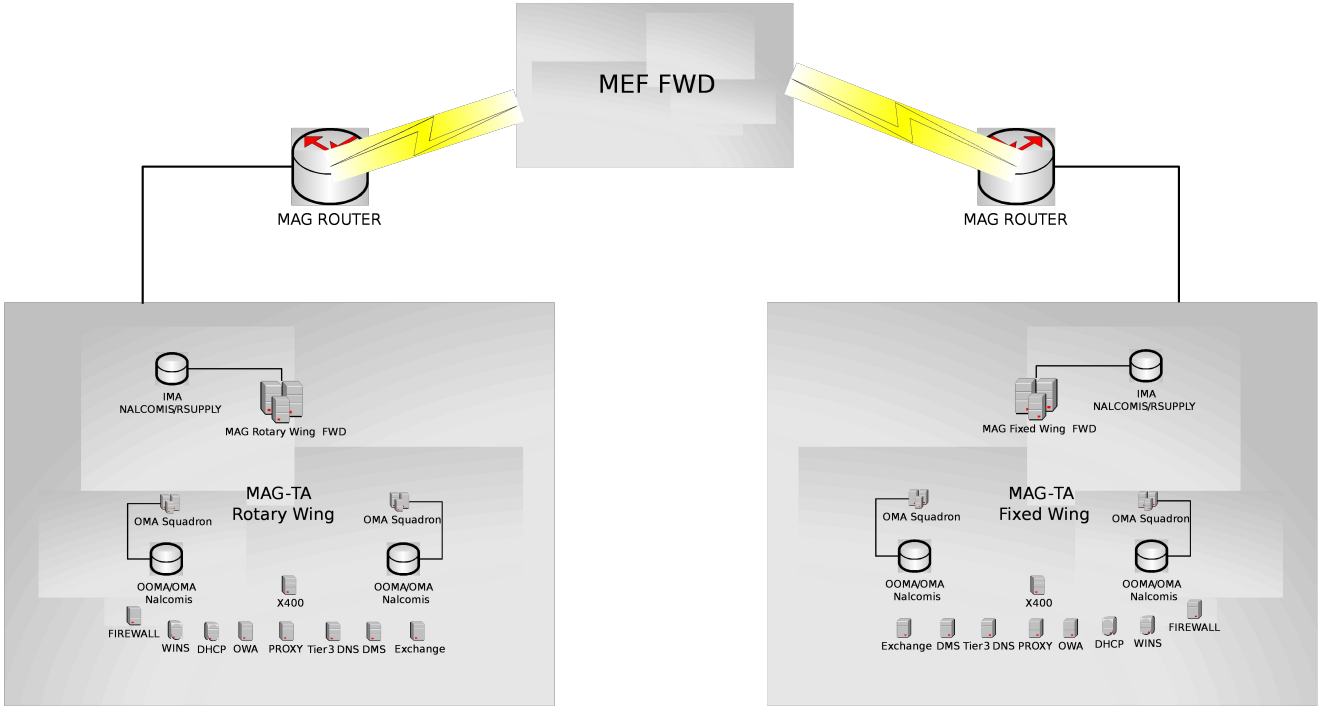
MAG-TA MEB Deployed

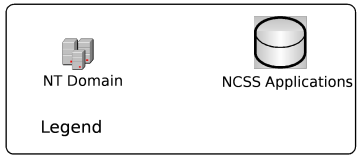


MAG-TA MEF Deployed

- Multiple Deployed LAN Kits (DLKs) will comprise network infrastructure for deploying ACE.
- MAGs FWD will provide required network services for the supported squadrons (Proxy, Firewall, Exchange, DMS, WINS, Tier 3 DNS, DHCP).
- MALS AISD Marines will migrate and maintain MAG FWD and squadron unit data and email.
- MEF G-6 will provide data connectivity back to MCEN COI.

MAG-TA MEF Deployed





Conclusion

- MAG-TA design is based on current Concepts of Employment and supports established CONOPS.
- Future changes to the MAG-TA domain model will be in collaboration with MCEN developers.
- MAG-TA elements can easily transition into the ISNS networks because of common architecture.
- MAG-TA allows for sustained proficiency of critical skills (Train as You Fight Concept).